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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/537,698	. 06/06/2005	Hajime Kondou	Q86396	7192		
23373 SUGHRUE MI	7590 10/11/2007	EXAMINER				
2100 PENNSY	LVANIA AVENUE, N	MULCAHY	MULCAHY, PETER D			
SUITE 800 WASHINGTO	N, DC 20037	ART UNIT	PAPER NUMBER			
			1796	,		
			MAIL DATE	DELIVERY MODE		
			10/11/2007	PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

				Application	on No.	A	hpplicant(s)				
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Office Ad	tion	Summary	: :	Examiner		_	Art Unit	1			
•		· i		Peter D. N	fulcahy	1	713				
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A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.											
Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.											
 If NO period for reply is sp Failure to reply within the 	ecified a set or ext Office lat	bove, the maximum statutor ended period for reply will, t er than three months after th	y period w	ill apply and wi	II expire SIX (6) MONTH	IS from the	mailing date of this c	ommunication			
Status				· .·			,				
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1)☑ Responsive to communication(s) filed on <u>06 June 2005</u> . 2a)☑ This action is FINAL 2b)☑ This action is non-final.											
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3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.											
		S. With the practice of		n parte uju !	ayle, 1933 C.D. 1	11, 400	O.G. 213.				
Disposition of Claims		i	•	. :							
4)⊠ Claim(s) <u>1-20</u>				•			<u>:</u> .				
4a) Of the above	ve clai	m(s) is/are w	ithdraw	⁄n from∙còi	nsideration.						
5) Claim(s)	_ is/ar	e allowed. rejected. e objected to.				•					
6)⊠ Claim(s) <u>1-20</u>	is/are	rejected.			:			i			
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8) Claim(s)	_ are s	subject to restriction	and/or	election re	equirement.						
Application Papers			•	•							
9) The specification	on is o	biected to by the Ex	aminer	+	:						
10) The drawing(s)					objected to by	the Exa	aminer.				
		est that any objection						· . :1			
Replacement dr	awing	sheet(s) including the	correction	on/s require	ed if the drawing(s)	is object	ted to: See 37 CF	R 1.121(d).			
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to: See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.											
Priority under 35 U.S.C	: . § 119										
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12)⊠ Acknowledgme a)⊠ All b)⊡ So	me * (o) None of:	or e ign į	priority unc	ier 35 U.S.C. § 1	19(a)-(d	i) or (t).	•			
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Attachment(s)	!	. :	1 :			: .		·.			
1) Notice of References Cit	ed (PTC	j-892)	; ; ;		4) Interview Sum	· nmarv (PT	O-413)				
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date.											
Paper No(s)/Mail Date 6	tatemer <u>/1/06&1</u>	n(s) (PTO/SB/08) <u>0/5/05</u> .		•	5) Notice of Information (6) Other: IDS files		nt Application				
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DETAILED ACTION

Claim Rejections - 35 USC § 102

Claim Rejections - 35 USC § 103

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-10, 12-18 and 20 rejected under 35 U.S.C. 102(e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Ichikawa et al. US 2004/0014876.
- 4. This patent teaches the use of a protease to deproteinize natural rubber. The protease use can be the same enzyme as preferred by applicants. The amylase and cellulase is disclosed at [0045]. The patent is silent as to the decomposition of glucans. The glucans are inherently possessed by the natural rubber. When the natural rubber

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is treated with the enzyme then the glucans are decomposed. As such the natural rubber contains the decomposed glucans as claimed.

- 5. Claims 1-20 are rejected under 35 U.S.C. 102(b or e) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Kawamura et al. US 6,344,499 or Galimberti et al. US 2003/0109625.
- The Kawamura et al. patent teaches the use of a protease to deproteinize natural rubber. The protease use can be the same enzyme as preferred by applicants. The amylase and cellulase is disclosed at column 4 lines 12+. The patent is silent as to the decomposition of glucans. The glucans are inherently possessed by the natural rubber. When the natural rubber is treated with the enzyme then the glucans are decomposed. As such the natural rubber contains the decomposed glucans as claimed.
- 7. The Galimberti et al patent shows the use of destructured starch in natural rubber compositions; see [0009]. The destructured starch is seen to read on the claimed decomposed glucans. As such, the claims are anticipated by this teaching.

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Peter D. Mulcahy whose telephone number is 571-272-1107. The examiner can normally be reached on Mon.-Fri. 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Wu can be reached on 571-272-1114. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Peter D. Mulcahy Primary Examiner

9/20/07